# Ekam Ghotra

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## EXPERIENCE

### Incoming Fall ML Researcher
Sep 2024 - Dec 2024

*GIES Business School @ University of Illinois - Urbana-Champaign*  —  *Remote*

### Data Analysis & Engineering Intern
Jun 2024 – Aug 2024

*Comcast Co. - Advanced Engineering*  —  *Livermore, CA*

- Specialized in deriving actionable insights from data representing efficiency, reliability, and maintenance metrics of field-active telecom tech
- Utilizing **Microsoft** & **Oracle SQL** servers, often accessed through **DBeaver** for streamlined data management
- Leveraged advanced **SQL** querying techniques & **Python** scripts to engineer data pipelines and subsequent analysis and modeling needs, contributing to a **10%** increase in team-wide task ideation

### Software Dev Lead + Project Manager
Jan 2024 – Current

*CodeForGood Student Organization*  —  *Madison, WI*

- Led all Backend engineering responsibilities, utilizing **SQL**, **MongoDB**, **Appwrite**, and **Zod** for data needs
- Aided in Frontend Development of the organization's primary web page using **React.JS**, **Node.JS**, and utilizing **Bootstrap** for **CSS** styling needs

### E-Commerce Software Developer
Dec 2019 – Jun 2024

*CampusKix*  —  *Champaign-Urbana, IL*

- Developed an intelligent financial data storage & analysis dashboard connected with a Full-Stack E-Commerce Web App, yielding real-time insight into product profitability, built using **Javascript**, **HTML/CSS**, **Python**, and several libraries, overall resulting in a **15%** increase in per-product profit
- Engineered **Python** purchase automation scripts capable of **150+ checkouts/minute** to support company purchasing power, leading to a **200+%** in product throughput

### Data Science Intern
Jun 2022 – Jul 2022

*Manus Bio Inc.*  —  *Augusta, GA*

- Aided computational biology team in parsing DNA fingerprinting data in **Python** and **R**, primarily for genetic trait improvement and novel genetic sequence detection to design commercial & industrial bio-alternatives

## PROJECTS

### Full Stack E-Commerce Site with Intelligent Financial Analysis
Jun – Dec 2023

- Developed E-Commerce site using **React.JS**, **Tailwind CSS**, & **Framer Motion** for Frontend
- Implemented Backend functionality with **Prisma ORM**, **PlanetScale** to access our **MySQL** server, connecting everything to the **Stripe API**
- Leveraged **Next.JS** and **Flask** to integrate with **Python** classification algorithms built with **SciKit Learn**, **NumPy**, and **PyTorch** to generate future product recommendations
- Enhanced site administration for current **13** users of this E-Commerce platform, yielding an average **15%** increase in per-product profit for all users

## EDUCATION

### University of Wisconsin - Madison
Madison, WI

*BS Computer Science + Data Science, Minor in Economic Analytics*  —  *Expected Graduation - May 2026*

- <u>Concentration:</u> Algorithmic Development and Mathematical Modeling for ML applications
- <u>Relevant Course Topics:</u> OOP, Data Structures & Algorithms, Artificial Intelligence, Discrete Math, Data Modeling, Linear Algebra, Data Systems, Human-Computer Interaction Computer Architecture, Econometrics

## TECHNICAL SKILLS

**Languages**: Python, SQL, R, C++, Java, Javascript, HTML/CSS, C#
**Tools**: VSCode, MatLab, IntelliJ, Eclipse, RStudio, DBeaver, MongoDB, Prisma ORM, Tableau
**Frameworks/Libraries**: TensorFlow, PyTorch, ScikitLearn, Keras, Pandas, React.JS, Next.JS, Node.JS, JavaFX